s and Astronomy

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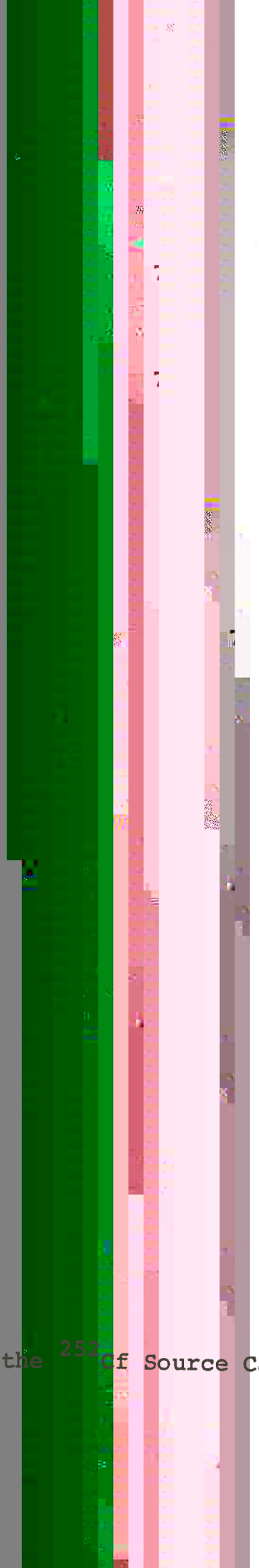
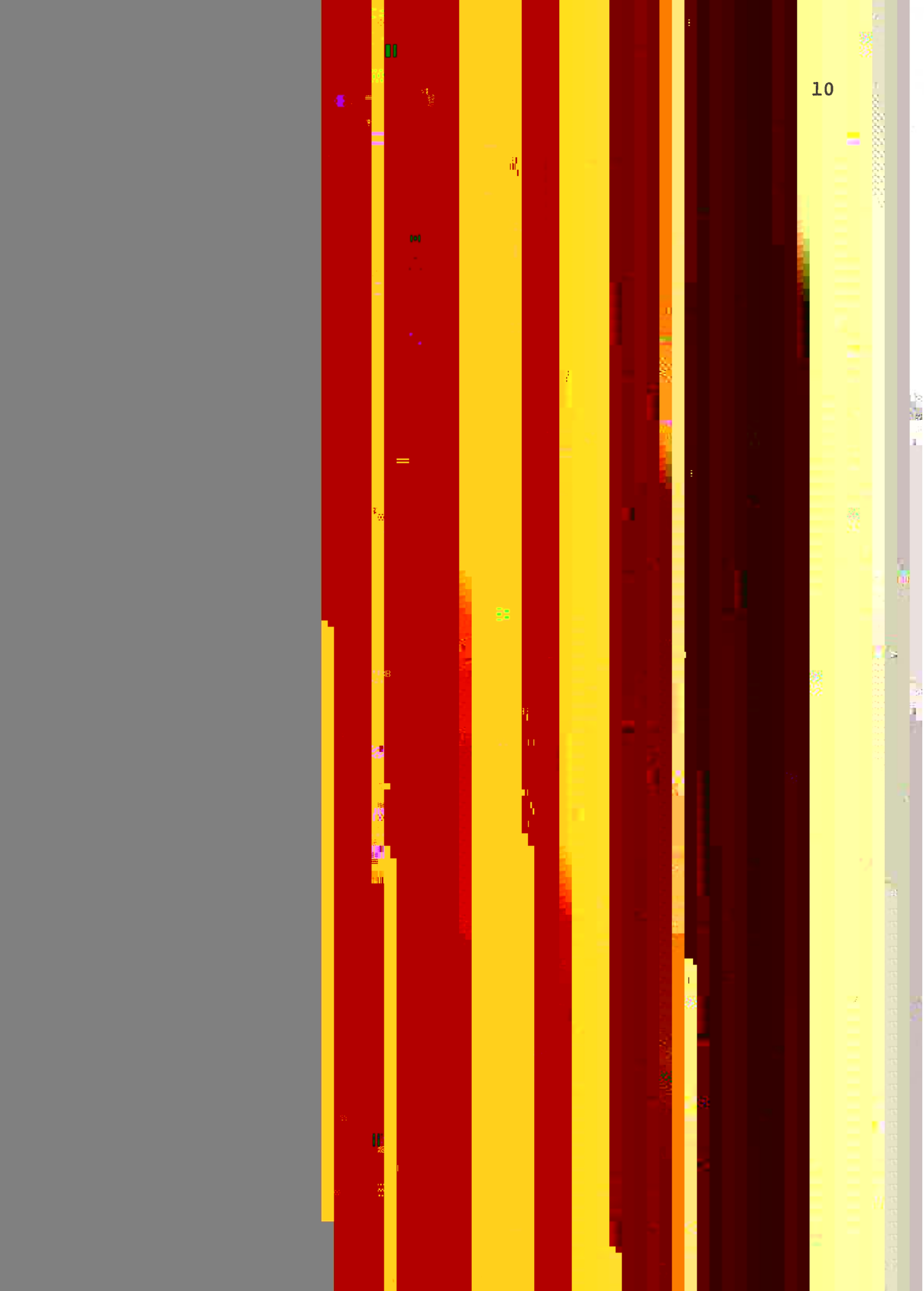


Figure 2(b). A Diagram of the ^{252}Cf Source Capsule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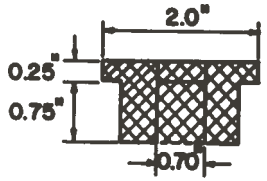
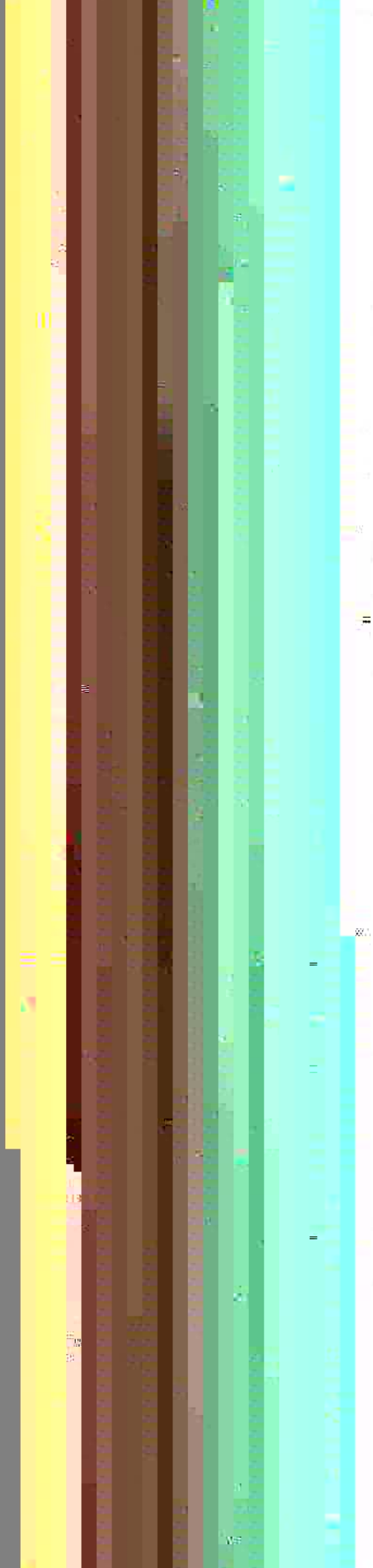


SOURCE TUBE HOLDER

DETAIL NO. 2



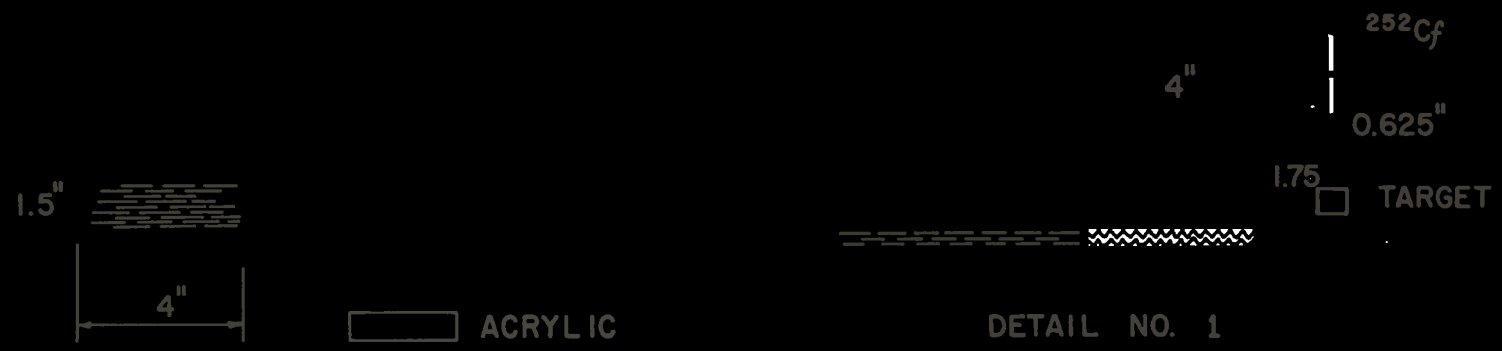
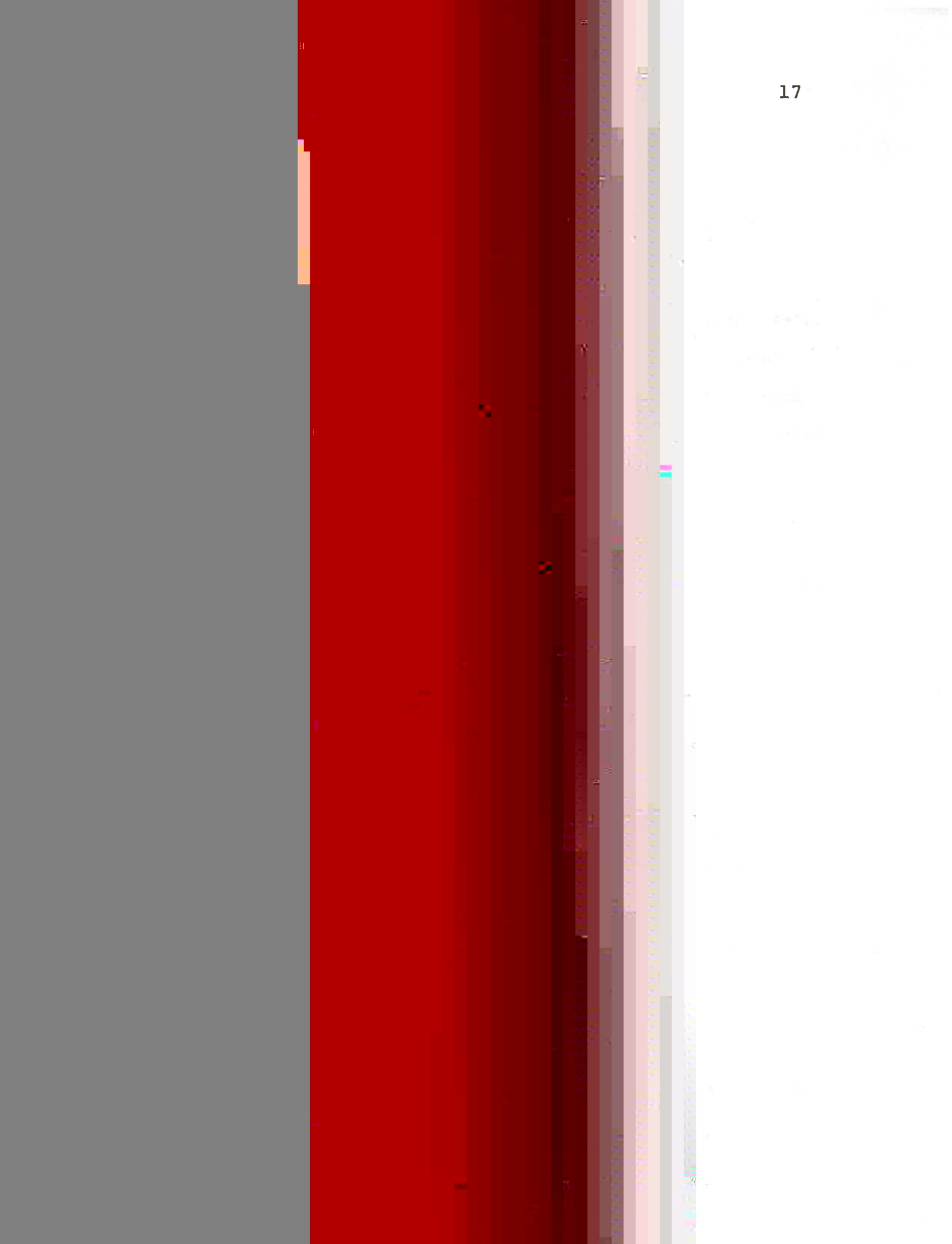


Figure 5. A Diagram of the Collimator in

Figure 6. A Block Diagram of the Spectrometer System



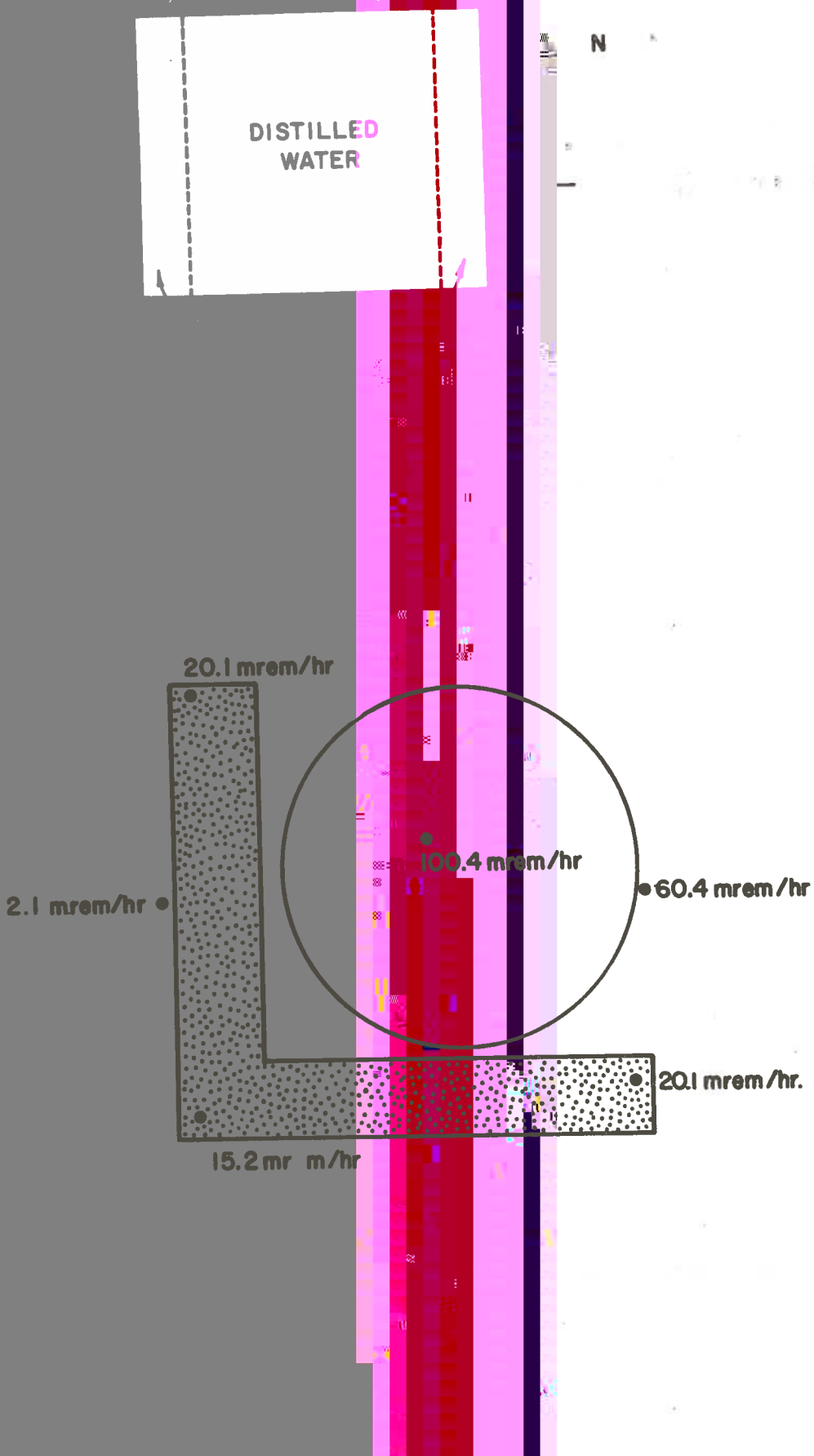
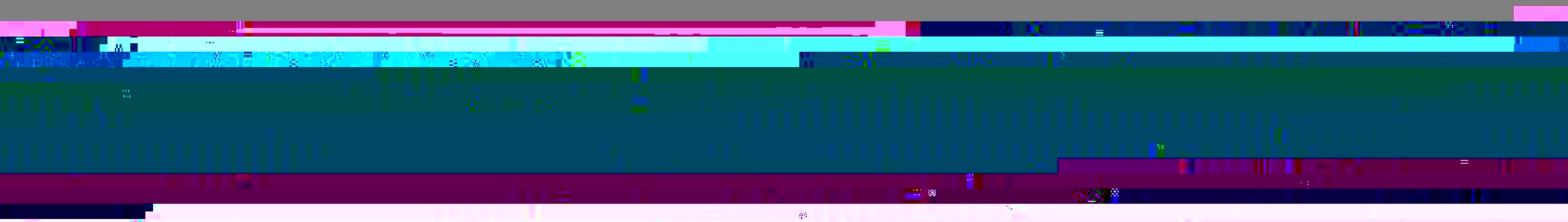

DISTILLED
WATER
N
20.1 mrem/hr
100.4 mrem/hr
2.1 mrem/hr
60.4 mrem/hr
20.1 mrem/hr.
15.2 mr m/hr

Figure 9(a). The Neutron Capture Gamma-Ray Spectrum From Natural Hg Using a 41 μg ^{252}Cf Source



Figur

Figure 10(a). The Neutron Capture Gamma-Ray Spectrum From Natural Hg Using a 3.1 mg ^{252}Cf Source

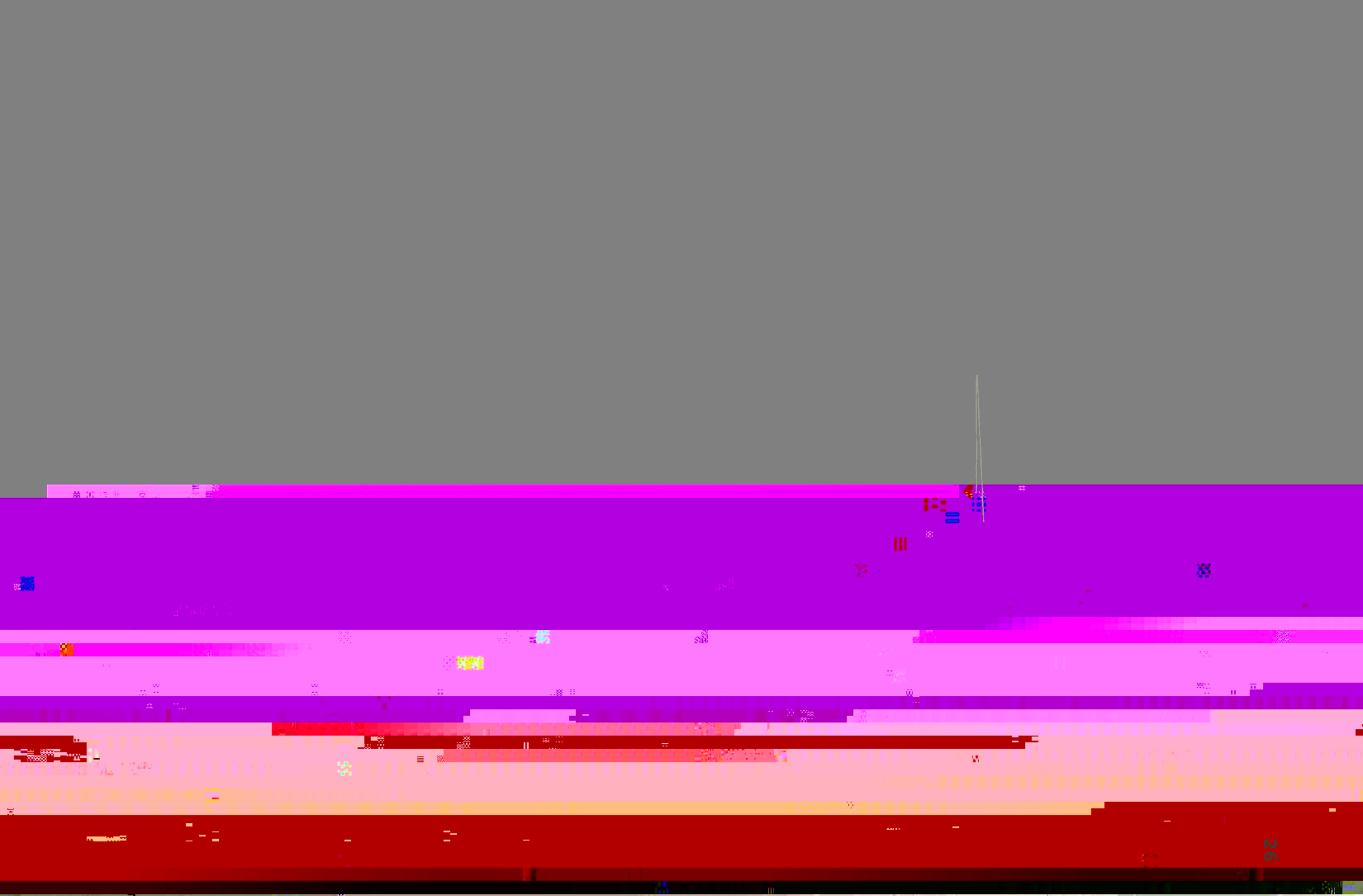


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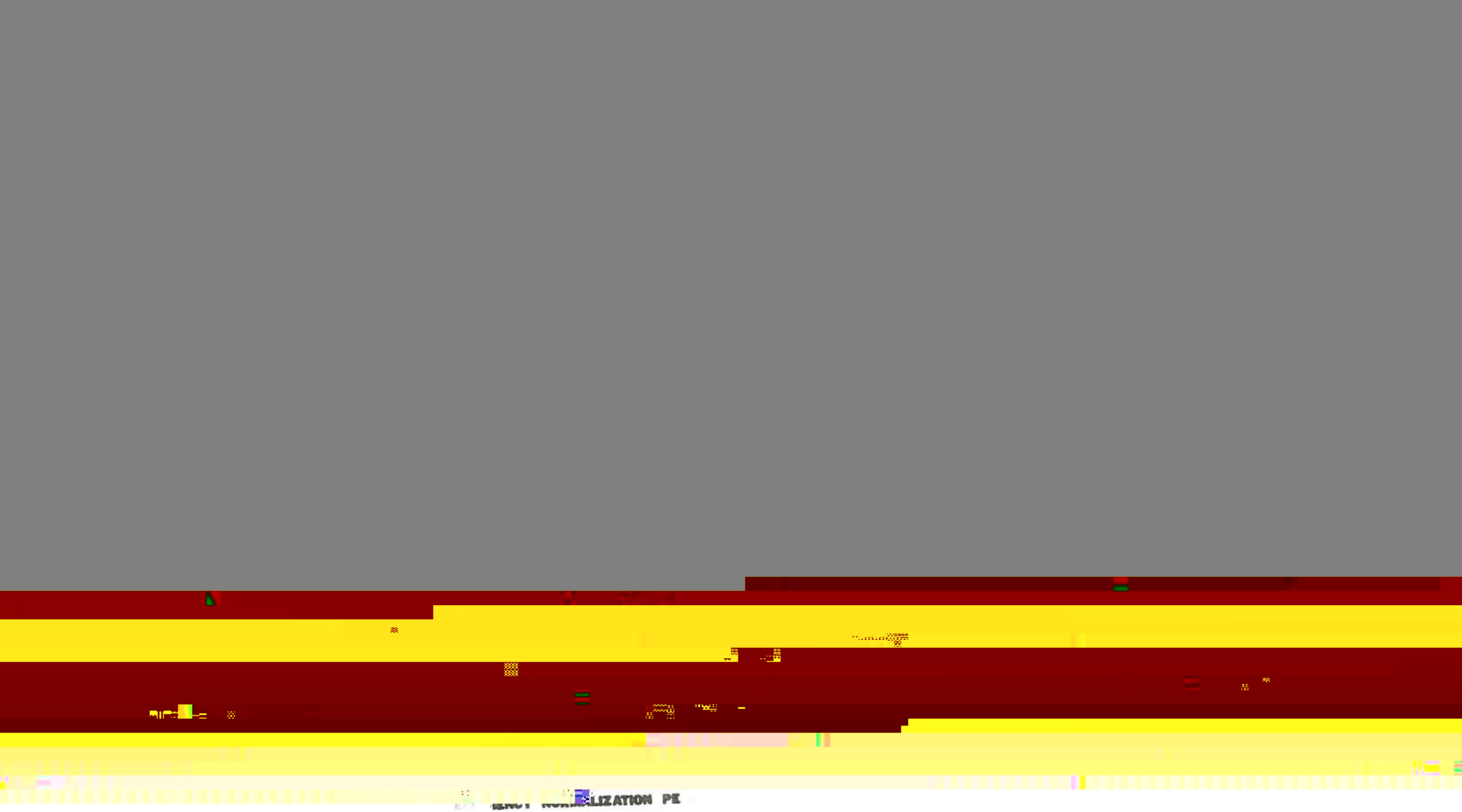
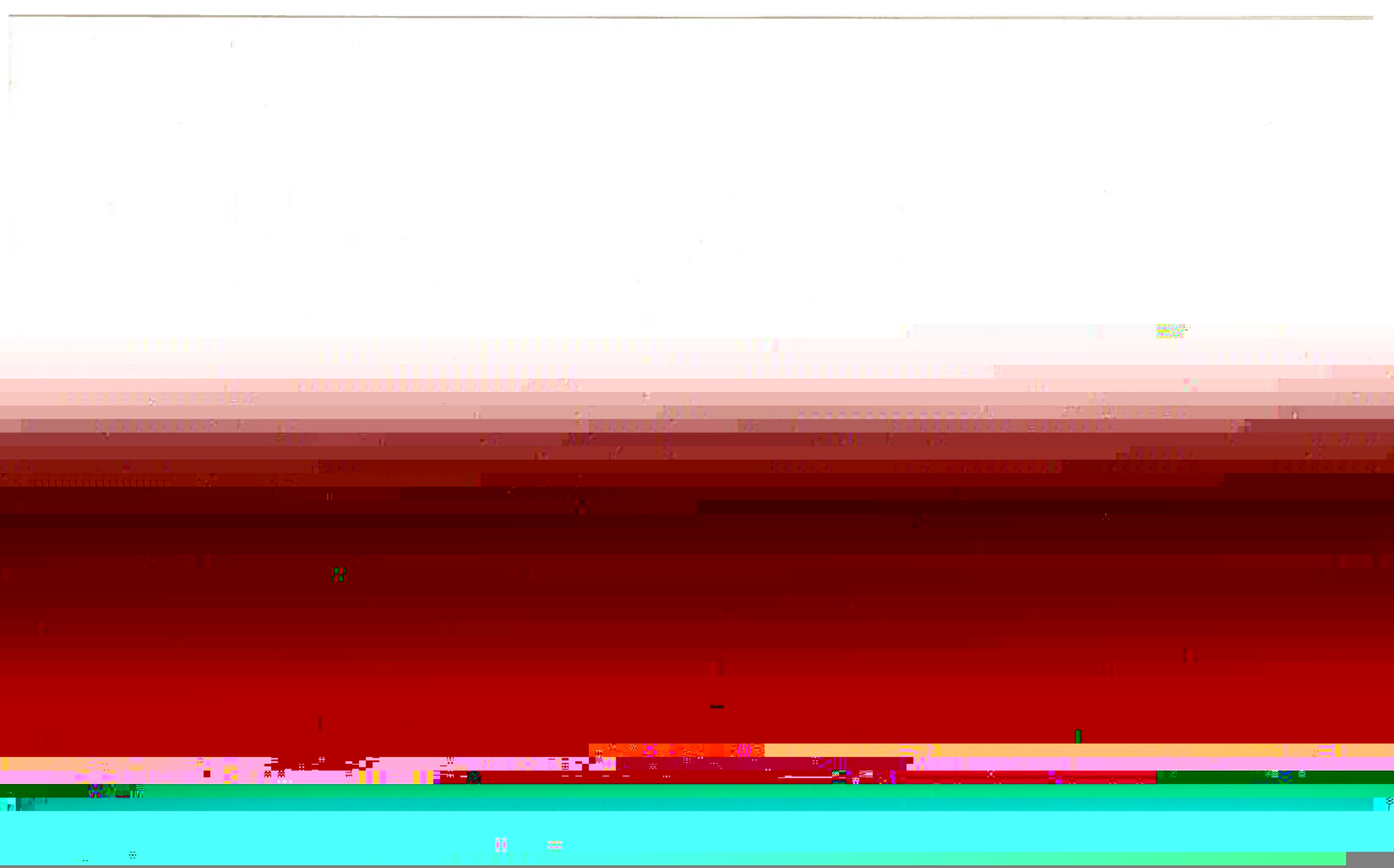
Figure 13. The Energy Calibration Spectrum



Figure

Figure 14(b). The Neutron Capture Gamma-Ray Spectrum from CCl_4 Using a 3.1 mg ^{252}Cf Source

$$\varepsilon_R(E) = \xi t \varepsilon_P(E) = \frac{A}{I} \quad ,$$



[d]Double escape peak energy

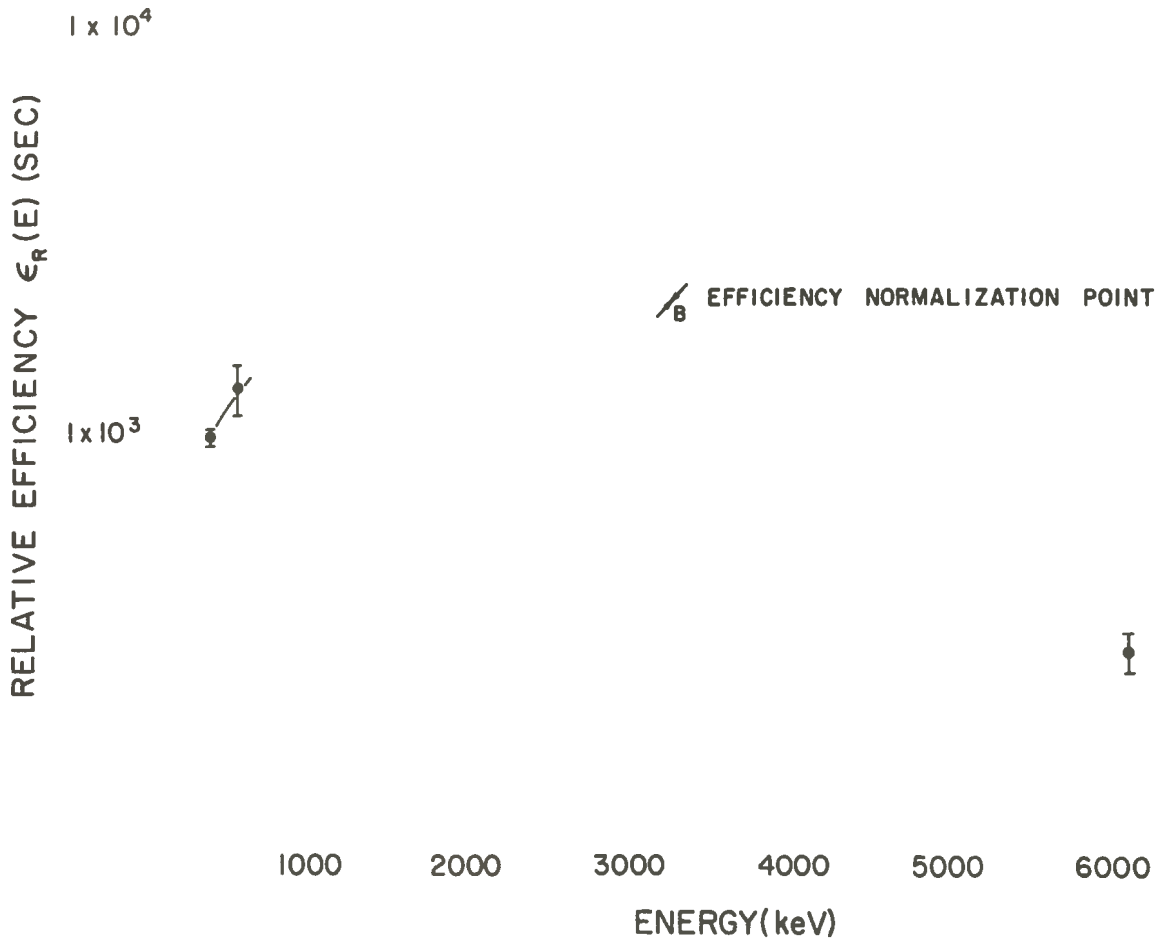
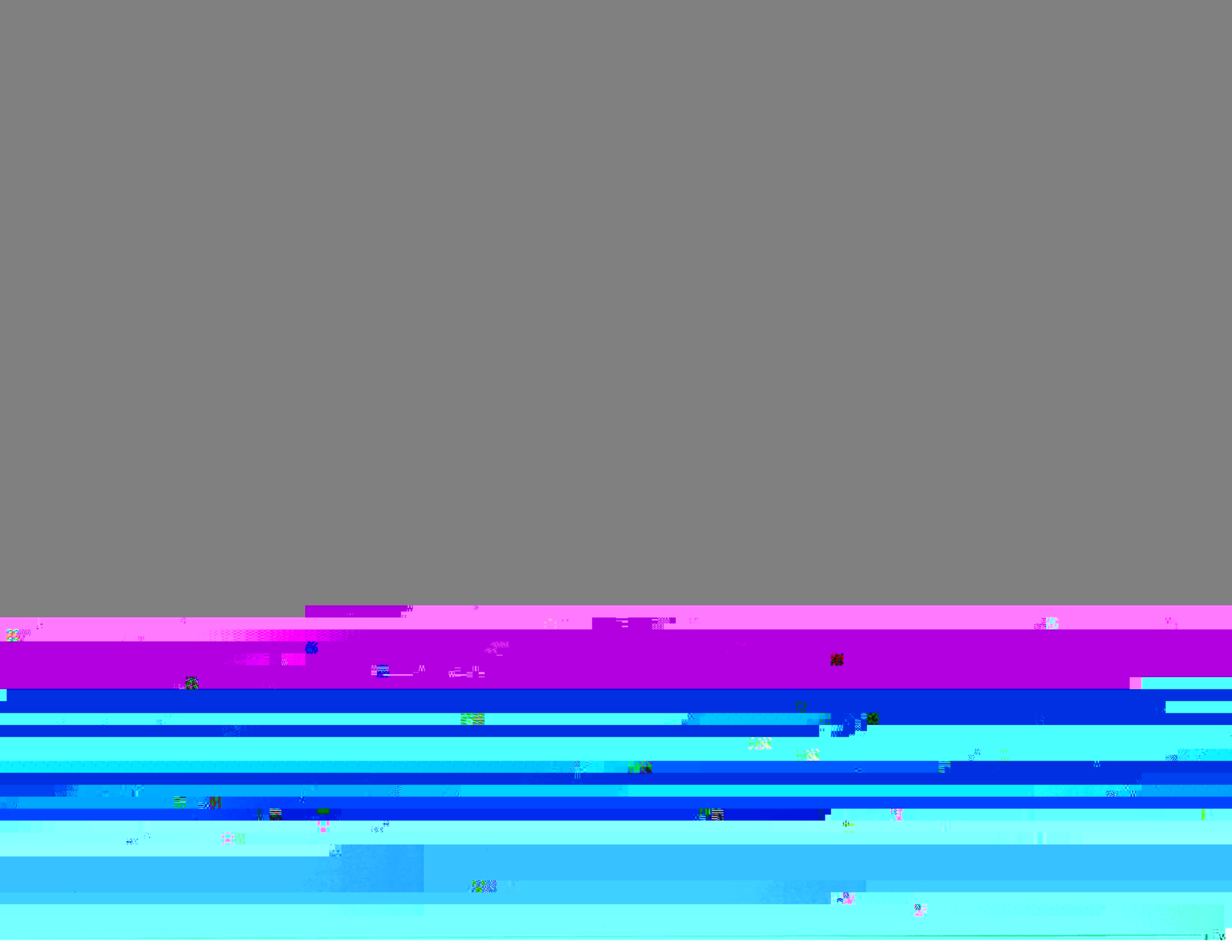


Figure 15. The Photopeak Efficienc Curve for the Detector System

and

a) These energies were taken from the work of Spits *et al.*[17] The photopeaks at these energies were observed in the gamma-ray spectrum from CCl_4.



$$M_A + M_n = M_{A+1} + Q \ ,$$

Figure 17. The Decay Scheme for ^{200}Hg

TABLE 8